



# DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.:

Activity No.: PER20050005

Agency Interest No. 2049

Mr. Otis Hall  
BASF Corporation  
Post Office Box 457  
Geismar, LA 70734-0457

RE: Part 70 Operating Permit Renewal, Acetylene Plant, BASF Corporation, Geismar, Ascension Parish, Louisiana

Dear Mr. Hall:

This is to inform you that the permit renewal for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the \_\_\_\_\_ of \_\_\_\_\_, 2011, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this \_\_\_\_\_ day of \_\_\_\_\_, 2006.

Permit No.: 2526 – V2

Sincerely,

Public Notice

## ENVIRONMENTAL SERVICES

: PO BOX 4313, BATON ROUGE, LA 70821-4313

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**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Acetylene Plant**  
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**BASF Corporation**  
**Geismar, Ascension Parish, Louisiana**

**I. Background**

BASF operates an integrated chemical manufacturing facility on the east bank of the Mississippi River, near Geismar. Permit Number 0180-00013-01, dated May 26, 1990, consolidated most existing emission points at the facility. Permits for individual production units were also issued. BASF constructed the Acetylene Plant in 1999, and is currently operating under Part 70 Operating Permit Number 2526-V1, issued October 2, 2000.

This is the Part 70 operating permit renewal for the Acetylene Plant.

**II. Origin**

A permit application and Emission Inventory Questionnaire (EIQ) dated April 15, 2005 were received requesting a renewal of the Part 70 operating permit for the referenced facility. An addendum package dated 12/29/2005 has been incorporated herein.

**III. Description**

The BASF Geismar Facility manufactures acetylene, amine compounds, aniline, ethylene oxide, gamma-butyrolactone, ethylene glycol, glyoxal, 1,4-butanediol, gasoline additives, methylenediphenyl diisocyanate, N-methyl-2-pyrrolidone, polyols, surfactants, tetrahydrofuran, polytetrahydrofuran, toluenediisocyanate, N-vinyl-2-pyrrolidone, and polyvinylpyrrolidone.

The Acetylene Plant is designed to produce 120 million pounds per year of acetylene. Acetylene is produced when natural gas is reformed to produce acetylene-rich syngas. Acetylene is recovered in a solvent absorption/desorption process. The syngas residue is sent off-site for hydrogen and carbon monoxide recovery.

Vents from the towers, analyzers, and drums are controlled by flares or preheaters. Low NOx burners are used to control nitrogen oxides emissions from the preheaters. Fugitive emissions are minimized by a streamlined leak detection and repair (LDAR) program that complies with LAC 33:III.2122. The emission cap (ACECAP01) covers the Acetylene Plant's combustion sources comprised of six preheaters and four flares.

Emission rates of this plant will increase slightly as a result of reconciliation of emissions (mainly fugitive). Estimated emissions in tons per year are as follows:

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| <b>Pollutant</b> | <b>Before</b> | <b>After</b> | <b>Change</b> |
|------------------|---------------|--------------|---------------|
| PM <sub>10</sub> | 9.47          | 9.60         | +0.13         |
| SO <sub>2</sub>  | 0.58          | 0.58         | 0.00          |
| NO <sub>X</sub>  | 36.25         | 36.25        | 0.00          |
| CO               | 35.10         | 34.90        | -0.20         |
| VOC *            | 4.91          | 5.13         | +0.22         |

**\*VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

| <b>Pollutant</b> | <b>Before</b> | <b>After</b> | <b>Change</b> |
|------------------|---------------|--------------|---------------|
| 1,3-Butadiene    | 0.005         | 0.02         | +0.015        |
| Benzene          | 0.022         | 0.04         | +0.018        |
| Formaldehyde     | 0.00          | 0.01         | +0.01         |
| n-Hexane         | 0.00          | 0.01         | +0.01         |
| Total            | 0.027         | 0.05         | +0.053        |

**Other VOC (TPY):** 5.08

**IV. Type of Review**

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS), and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD) does not apply.

The BASF Geismar Site is a major source of toxic air pollutants (TAPs). Facility-wide emissions of 1,3-butadiene, benzene, and formaldehyde are emitted in quantities above the Minimum Emission Rate (MER) and are controlled by Maximum Achievable Control Technology (MACT) in accordance with Compliance Plan No. 92067, approved November 1, 1994. N-Hexane is a Class III pollutant, therefore, no MACT is required.

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**V. Credible Evidence**

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

**VI. Public Notice**

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 200X; and in the *Gonzales Weekly*, Gonzales, LA, on <date>, 200X. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

**VII. Effects on Ambient Air**

Dispersion Model(s) Used: None

**VIII. General Condition XVII Activities**

BASF has identified activities that meet the requirements of General Permit Condition XVII. The activities which BASF has identified for the Acetylene Plant include:

- Emptying and draining equipment; and
- Collection of samples.

| Work Activity                   | Schedule | Emission Rates - tons |                 |                 |    |             |
|---------------------------------|----------|-----------------------|-----------------|-----------------|----|-------------|
|                                 |          | PM <sub>10</sub>      | SO <sub>2</sub> | NO <sub>X</sub> | CO | VOC         |
| Emptying and Draining Equipment | Daily    |                       |                 |                 |    | 0.35        |
| Collection of Samples           | 3376/yr  |                       |                 |                 |    | 0.02        |
| <b>Total</b>                    |          |                       |                 |                 |    | <b>0.37</b> |

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**IX. Insignificant Activities**

| ID No.: | Description  | Citation<br>Insignificant Activity per: |
|---------|--|---|
|         | Non-regulated inorganic air pollutant emissions  | LAC 33:III.501.B.5.A.4                  |
|         | Emissions from laboratory equipment/vents used exclusively for routine chemical or physical analysis   | LAC 33:III.501.B.5.A.6                  |
|         | Noncommercial water washing operations of empty drums less than or equal to 55 gallons with less than 3% of the maximum container volume of material | LAC 33:III.501.B.5.A.7                  |
|         | Portable cooling towers used on a temporary basis in maintenance activities  | LAC 33:III.501.B.5.A.12                 |
|         | Activities which occur strictly for maintenance of grounds or buildings  | LAC 33:III.501.B.5.B.1                  |
|         | Surface coating of equipment during miscellaneous maintenance and construction activities  | LAC 33:III.501.B.5.B.2                  |
|         | Miscellaneous equipment maintenance or construction  | LAC 33:III.501.B.5.B.3                  |
|         | Exhaust emissions or vehicle refueling emissions   | LAC 33:III.501.B.5.B.4                  |
|         | Office Activities  | LAC 33:III.501.B.5.B.5                  |
|         | Emissions from storage or use of water-treating chemicals  | LAC 33:III.501.B.5.B.8                  |
|         | Miscellaneous additions or upgrades of instrumentation or control systems  | LAC 33:III.501.B.5.B.9                  |
|         | Emissions from air contaminant detectors and recorders, combustion controllers, or combustion shutoff devices  | LAC 33:III.501.B.5.B.11                 |
|         | Buildings, cabinets, and facilities used for storage of chemicals in closed containers   | LAC 33:III.501.B.5.B.12                 |
|         | Use of products for the purpose of maintaining motor vehicles operated by the facility   | LAC 33:III.501.B.5.B.13                 |

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**Insignificant Activities (continued)**

| ID No.: Description   | Citation<br>Insignificant Activity per: |
|---|---|
| Stacks or vents to prevent escape of sanitary sewer gases through plumbing traps                        | LAC 33:III.501.B.5.B.15                 |
| Emissions from equipment lubricating systems  | LAC 33:III.501.B.5.B.16                 |
| Air conditioning or comfort ventilation systems   | LAC 33:III.501.B.5.B.17                 |
| Instrumentation air systems, excluding fuel-fired compressors   | LAC 33:III.501.B.5.B.22                 |
| Paved parking lots  | LAC 33:III.501.B.5.B.23                 |
| Air vents from air compressors  | LAC 33:III.501.B.5.B.24                 |
| Periodic use of air for cleanup   | LAC 33:III.501.B.5.B.25                 |
| Solid waste dumpsters   | LAC 33:III.501.B.5.B.26                 |
| Emissions from pneumatic starters   | LAC 33:III.501.B.5.B.28                 |
| Emergency use generators, boilers, or other fuel burning equipment                                      | LAC 33:III.501.B.5.B.32                 |
| Emissions from caustic tanks that contain no VOC  | LAC 33:III.501.B.5.B.40                 |
| Portable diesel fuel storage tanks used on a temporary basis in maintenance and construction activities | LAC 33:III.501.B.5.B.44                 |
| Emergency electrical power generators used only during power outages                                    | LAC 33:III.501.B.5.B.45                 |

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**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

| ID No.:          | Description                    | LAC 33:III.Chapter |    |   |    |    |    |      |      |      |      |      |      |      |      |     |    |    |
|------------------|--------------------------------|--------------------|----|---|----|----|----|------|------|------|------|------|------|------|------|-----|----|----|
|                  |                                | 2*                 | 5* | 9 | 11 | 13 | 15 | 2103 | 2107 | 2111 | 2113 | 2115 | 2122 | 2147 | 2153 | 51* | 53 | 56 |
|                  | Facility Wide                  | 1                  | 1  | 1 | 1  | 1  |    |      |      | 1    |      |      |      |      | 1    | 1   | 1  | 1  |
| 10-97 thru 15-97 | Preheater H080 (A-F)           |                    |    | 1 | 1  | 1  |    |      |      |      |      |      |      |      |      |     |    | 2  |
| 16-97 thru 17-97 | Cracked Gas Flare FS-199 (A,B) |                    |    | 1 | 1  | 1  |    |      |      |      |      |      |      |      |      |     |    | 1  |
| 18-97            | Synthesis Gas Flare FS-399     |                    |    | 1 | 1  | 1  |    |      |      |      |      |      |      |      |      |     |    | 1  |
| 19-97            | Acetylene Gas Flare FS-499     |                    |    | 1 | 1  | 1  |    |      |      |      |      |      |      |      |      |     |    | 1  |
| 21-97            | Acetylene Cooling Tower        |                    |    |   |    |    |    |      |      |      |      |      |      |      |      |     |    | 1  |
| 22-97            | NMP Tank (D-300)               |                    |    |   |    |    | 3  |      |      |      |      |      |      |      |      |     |    |    |
| 24-97            | Acetylene Plant Fugitives      |                    |    |   |    |    |    | 1    |      |      |      |      |      |      | 1    |     |    |    |
| 26-97            | D-450 Mixed Condensate Drum    |                    |    |   |    |    |    |      | 3    |      |      |      |      |      |      |     |    |    |
| 27-97            | D-550 Slop Drum                |                    |    |   |    |    |    |      | 3    |      |      |      |      |      |      |     |    |    |
| 28-97            | D-530 Residue Storage Tank     |                    |    |   |    |    |    |      |      | 3    |      |      |      |      |      |     |    |    |
| 29-97            | D-430 Separator                |                    |    |   |    |    |    |      |      | 3    |      |      |      |      |      |     |    |    |
| 30-97            | D-480 Mixing Condenser Drum    |                    |    |   |    |    |    |      |      |      | 3    |      |      |      |      |     |    |    |
| WW-1             | Process Wastewater             |                    |    |   |    |    |    |      |      |      |      |      |      |      | 1**  | 3   |    |    |
| WW-2             | Sooty Process Wastewater       |                    |    |   |    |    |    |      |      |      |      |      |      |      | 1**  | 3   |    |    |
| WW-3             | Plant Sump Wastewater          |                    |    |   |    |    |    |      |      |      |      |      |      |      | 1**  | 3   |    |    |

\*\* Wastewater streams are hard-piped to the Wastewater Treatment Plant (biological treatment unit) which is permitted under the Utilities Plant Title V operating permit.

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\* The regulations indicated above are State Only regulations except for LAC 33:III.501.C.6 Limitations that specifically state that the regulation is Federally Enforceable.

**KEY TO MATRIX**

- 1 - The regulations have applicable requirements that apply to this particular emission source.  
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

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**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

| ID No.:          | Description                    | 40 CFR 60 NSPS |   |    |    |   |    | 40 CFR 61 NESHPAP |    |     |     |   |   | 40 CFR 63 NESHPAP |   |   |   |      |    | 40 CFR Parts |  |   |
|------------------|--------------------------------|----------------|---|----|----|---|----|-------------------|----|-----|-----|---|---|-------------------|---|---|---|------|----|--------------|--|---|
|                  |                                | A              | D | Db | Dc | K | Ka | Kb                | VV | III | NNN | A | M | F                 | G | H | Q | FFFF | 68 | 82           |  |   |
|                  | Facility Wide                  | 1              |   |    |    |   |    |                   |    |     |     | 1 | 1 | 1                 |   |   |   |      | 1  | 1            |  |   |
| 10-97 thru 15-97 | Preheater H080 (A-F)           | 1              | 3 | 3  | 3  |   |    |                   |    |     |     | 3 |   |                   |   |   |   |      |    |              |  |   |
| 16-97 thru 17-97 | Cracked Gas Flare FS-199 (A,B) | 1              |   |    |    |   |    |                   |    |     |     | 3 |   |                   |   |   |   |      |    |              |  |   |
| 18-97            | Synthesis Gas Flare FS-399     | 1              |   |    |    |   |    |                   |    |     |     | 3 |   |                   |   |   |   |      |    |              |  |   |
| 19-97            | Acetylene Gas Flare FS-499     | 1              |   |    |    |   |    |                   |    |     |     | 3 |   |                   |   |   |   |      |    |              |  |   |
| 21-97            | Acetylene Cooling Tower        |                |   |    |    |   |    |                   |    |     |     |   |   |                   |   |   |   |      |    |              |  | 3 |
| 22-97            | NMP Tank (D-300)               |                |   |    |    |   |    |                   |    |     |     | 3 | 3 | 1                 |   |   |   |      |    |              |  |   |
| 24-97            | Acetylene Plant Fugitives      |                |   |    |    |   |    |                   |    |     |     | 1 |   |                   |   |   |   |      |    |              |  |   |
| 26-97            | D-450 Mixed Condensate Drum    |                |   |    |    |   |    |                   |    |     |     | 3 | 3 | 3                 |   |   |   |      |    |              |  |   |
| 27-97            | D-550 Slop Drum                |                |   |    |    |   |    |                   |    |     |     | 3 | 3 | 3                 |   |   |   |      |    |              |  |   |
| 28-97            | D-530 Residue Storage Tank     |                |   |    |    |   |    |                   |    |     |     | 3 | 3 | 3                 |   |   |   |      |    |              |  |   |
| 29-97            | D-430 Separator                |                |   |    |    |   |    |                   |    |     |     | 3 | 3 | 3                 |   |   |   |      |    |              |  |   |
| 30-97            | D-480 Mixing Condenser Drum    |                |   |    |    |   |    |                   |    |     |     | 3 | 3 | 3                 |   |   |   |      |    |              |  |   |
| WW-1             | Process Wastewater             |                |   |    |    |   |    |                   |    |     |     |   |   |                   |   |   |   |      |    |              |  |   |
| WW-2             | Sooty Process Wastewater       |                |   |    |    |   |    |                   |    |     |     |   |   |                   |   |   |   |      |    |              |  |   |
| WW-3             | Plant Sump Wastewater          |                |   |    |    |   |    |                   |    |     |     |   |   |                   |   |   |   |      |    |              |  |   |

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**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

| ID No:  | Requirement  | Notes   |
|---|--|---|
| <i>EQT206 - 211<br/>10-97 thru 15-97<br/>Preheater H080 (A-F)</i> | Emission Control and Reduction Requirements and Standards [LAC 33.III.5109] STATE-ONLY             | <b>EXEMPT.</b> The combustion of Group 1 virgin fossil fuels is exempt from the requirements of Subchapter A per LAC 33.III.5105.B.3.a. Site shall comply with AAS requirements for TAPs. |
|   | NSPS Subpart D – Fossil-Fuel Fired Steam Generators [40 CFR 60.40]                                 | <b>DOES NOT APPLY.</b> Each source is not an affected facility per 40 CFR 60.40.a.1.  |
|   | NSPS Subpart Db- Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60.40b]        | <b>DOES NOT APPLY.</b> Each source is not an affected facility per 40 CFR 60.40b.a. Heat capacity is less than 100 MM Btu/hr.   |
|   | NSPS Subpart Dc – Small Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60.40c] | <b>DOES NOT APPLY.</b> Each source is not an affected source per 40 CFR 60.41c (definition of steam generating unit).   |
|   | NSPS Subpart NNN – SOCMI Distillation Operations [40 CFR 60.660]                                   | <b>DOES NOT APPLY.</b> Operations do not meet the definition listed in 40 CFR 60.661.   |
| <i>EQT212 - 215<br/>16-97 thru 19-97<br/>Flares</i>               | NSPS Subpart NNN – SOCMI Distillation Operations [40 CFR 60.660]                                   | <b>DOES NOT APPLY.</b> Operations do not meet the definition listed in 40 CFR 60.661.   |

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| ID No:  | Requirement  | Notes  |
|---|--|--|
| <i>EQT216</i><br>21-97<br><i>Acetylene Cooling Tower</i>                                    | Emission Control and Reduction Requirements and Standards [LAC 33:III.5109] STATE-ONLY   | <b>DOES NOT APPLY.</b> No MACT required for Chlorine (Class III TAP). Site shall comply with AAS requirements for TAPs.                      |
|   | NESHAP Subpart Q – Industrial Process Cooling Towers [40 CFR 63.1420]  | <b>DOES NOT APPLY.</b> No chromium-based water treatment chemicals are used.   |
| <i>EQT217</i><br>22-97<br><i>NMP Tank (D-300)</i>   | Storage of Volatile Organic Compounds [LAC 33:III.2103]<br><br>NSPS Subpart K – Standards of Performance for Storage Vessels for Petroleum Liquids [40 CFR 60.110] | <b>DOES NOT APPLY.</b> Vapor pressure of the stored liquids is <1.5 psia.<br><br><b>DOES NOT APPLY.</b> Tanks do not store petroleum liquid. |
|   | NSPS Subpart Ka – Storage Vessels for Petroleum Liquids [40 CFR 60.110a]   | <b>DOES NOT APPLY.</b> Tanks do not store petroleum liquid.  |
| <i>EQT218</i><br>27-97 D-550 Slop Drum<br><i>EQT219</i><br>28-97 D-530 Residue Storage Tank | Storage of Volatile Organic Compounds [LAC 33:III.2103]  | <b>DOES NOT APPLY.</b> Vapor pressure of the stored liquids is <1.5 psia.  |

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| ID No:   | Requirement  | Notes   |
|--|--|---|
| <i>EQT218</i><br>27-97 D-550 Slop Drum                           | NSPS Subpart K – Standards of Performance for Storage Vessels for Petroleum Liquids<br>[40 CFR 60.110]     | <b>DOES NOT APPLY.</b> Tanks do not store petroleum liquid.               |
| <i>EQT219</i><br>28-97 D-530 Residue Storage Tank<br>(continued) | NSPS Subpart Ka – Storage Vessels for Petroleum Liquids<br>[40 CFR 60.110a]                                | <b>DOES NOT APPLY.</b> Tanks do not store petroleum liquid.               |
| <i>EQT218</i><br>27-97 D-550 Slop Drum                           | NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels<br>[40 CFR 60.110b] | <b>DOES NOT APPLY.</b> Capacity of each tank is less than 19,800 gallons. |
| <i>EQT219</i><br>28-97 D-530 Residue Storage Tank<br>(continued) | Storage of Volatile Organic Compounds<br>[LAC 33;III.2103]   | <b>DOES NOT APPLY.</b> Vapor pressure of the stored liquids is <1.5 psia. |
| 26-97 D-450 Mixed Condensate Drum                                |  |   |
| 29-97 D-430 Separator  |  |   |
| 30-97 D-480 Mixing Condenser Drum                                |  |   |

**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Acetylene Plant**  
 Agency Interest No.: 2049  
**BASF Corporation**  
**Geismar, Ascension Parish, Louisiana**

**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

| ID No:   | Requirement   | Notes   |
|--|---|---|
| <b>26-97 D-450 Mixed Condensate Drum</b>                                   | NSPS Subpart K – Standards of Performance for Storage Vessels for Petroleum Liquids<br>[40 CFR 60.110]  | <b>DOES NOT APPLY.</b> Tank does not store petroleum liquid.  |
| <b>29-97 D-430 Separator 30-97 D-480 Mixing Condenser Drum (continued)</b> | NSPS Subpart Ka – Storage Vessels for Petroleum Liquids<br>[40 CFR 60.110a]<br><br>NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels<br>[40 CFR 60.110b-a] | <b>DOES NOT APPLY.</b> Tank does not store petroleum liquid.  |
| <b>EQT372 – 374</b>  | Emission Control and Reduction Requirements and Standards<br>[LAC 33:III.5109] STATE-ONLY   | <b>DOES NOT APPLY.</b> Wastewater sources do not emit Class I or II TAPs, therefore no MACT is required. Wastewater streams are hard-piped to the Wastewater Treatment Plant (biological treatment unit) which is permitted under the Utilities Plant Title V operating permit. Site shall comply with AAS requirements for TAPs. |
| <b>WW-1 Process Wastewater</b>   |   |   |
| <b>WW-2 Sooty Process Wastewater</b>                                       |   |   |
| <b>WW-3 Plant Sump Wastewater</b>  |   |   |

The above table provides explanation for both the exemption status or non-applicability of a source cited by 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

## 40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
  1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];

## 40 CFR PART 70 GENERAL CONDITIONS

2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
  3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and
  4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.  
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
1. the date, place as defined in the permit, and time of sampling or measurements;
  2. the date(s) analyses were performed;
  3. the company or entity that performed the analyses;
  4. the analytical techniques or methods used;
  5. the results of such analyses; and
  6. the operating conditions as existing at the time of sampling or measurement.
- [Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of

## 40 CFR PART 70 GENERAL CONDITIONS

attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]

- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]
- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
  - 1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
  - 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
  - 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
  - 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;

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5. changes in emissions would not qualify as a significant modification; and
  6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Surveillance Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
  2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
  3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:
    - a. Report by June 30 to cover January through March
    - b. Report by September 30 to cover April through June
    - c. Report by December 31 to cover July through September
    - d. Report by March 31 to cover October through December
  4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]

## 40 CFR PART 70 GENERAL CONDITIONS

- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
  2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
  3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
  4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
  5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
  6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]
- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]

- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

## **LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS**

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated April 5, 2005. An addendum package dated December 29, 2005 has been incorporated herein.
- IV. This permit shall become invalid, for the sources not constructed, if:
  - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
  - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.  
  
This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.

## **LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS**

- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.
- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Surveillance Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Surveillance Division with a written report as specified below.
  - A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
  - B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
  - C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of

## **LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS**

quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:

1. Report by June 30 to cover January through March
  2. Report by September 30 to cover April through June
  3. Report by December 31 to cover July through September
  4. Report by March 31 to cover October through December
- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
  2. Cause of noncompliance;
  3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
  4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
  5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.

XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:

- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
- B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
- C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
- D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.
- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
  2. Be less than the minimum emission rate (MER)
  3. Be scheduled daily, weekly, monthly, etc., or
  4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]
- These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.
- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

**LOUISIANA AIR EMISSION PERMIT  
GENERAL CONDITIONS**

Attention: Office of the Secretary, Legal Services Division  
La. Dept. of Environmental Quality  
Post Office Box 4302  
Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

**General Information**

AI ID: 2049 BASF Corp

Activity Number: PER20050005

Permit Number: 2526-V2

Air - Title V Regular Permit Renewal

| Also Known As:   | ID   | Name                             | User Group          | Start Date |
|------------------|--|----------------------------------|---------------------|------------|
|                  | 1923606-001w   | Tax Exempt No                    | Accident Prevention | 11-20-1999 |
| 0180-00013       | BASF Corp - Geismar Site                                   | CDS Number                       |                     | 05-27-1993 |
| 0180-0013        | BASF Corp - Geismar Site                                   | Emission Inventory               |                     | 02-25-2004 |
| LAD040776809     | BASF Corp  | Hazardous Waste Notification     |                     | 08-13-1980 |
| PMT/PC/CA        | GRPA Baselines   | Hazardous Waste Permitting       |                     | 10-01-1997 |
| 00095            | BASF Corp  | Inactive & Abandoned Sites       |                     | 06-09-1981 |
| LAD040776809     | BASF Wyandotte Corp  | Inactive & Abandoned Sites       |                     | 06-09-1981 |
| LA00002950       | WPC File Number  | LPDES Permit #                   |                     | 05-22-2003 |
| LAR10A929        | NPDES Fed Number   | LPDES Permit #                   |                     | 05-22-2003 |
| LAR10B055        | WPC File Number  | LPDES Permit #                   |                     | 05-22-2003 |
| LAR10B264        | LPDES #  | LPDES Permit #                   |                     | 03-21-2003 |
| LAR10B444        | LPDES #  | LPDES Permit #                   |                     | 12-12-2004 |
| WP2101           | WPC State Permit Number                                    | LWDPS Permit #                   |                     | 06-25-2003 |
| LA-2304-L01      | Radioactive Material License                               | Radiation License Number         |                     | 11-03-2000 |
| GD-005-1425      | Site ID #  | Solid Waste Facility No.         |                     | 12-11-2000 |
| 104720           | BASF Corp  | TEMPO Merge                      |                     | 05-17-2004 |
| 11412            | BASF Wyandotte   | TEMPO Merge                      |                     | 10-30-2000 |
| 16872            | BASF Corp - Ecology  | TEMPO Merge                      |                     | 12-11-2002 |
| 19954            | BASF Wyandotte Corp Geismar Works Chem Div                 | TEMPO Merge                      |                     | 10-30-2000 |
| 38802            | BASF Corp  | TEMPO Merge                      |                     | 10-30-2000 |
| 40717            | BASF Corp  | TEMPO Merge                      |                     | 10-30-2000 |
| 49922            | BASF Wyandotte Corp  | TEMPO Merge                      |                     | 10-30-2000 |
| 87014            | BASF Corp - Site Drainage Improvements Phase 2             | TEMPO Merge                      |                     | 08-23-2004 |
| 0180-0013        | Toxic Emissions Data Inventory #                           | Toxic Emissions Data Inventory # |                     | 01-01-1991 |
| 70734BSFCRIVER   | TRI #  | Toxic Release Inventory          |                     | 07-09-2004 |
| 03000346         | UST Facility ID (from UST legacy data)                     | Underground Storage Tanks        |                     | 10-11-2002 |
| WQC 000831-04    | BASF Corp - Site Drainage Improvements Phase 2             | Water Certification              |                     | 10-18-2000 |
| WQC 980504-02    | Water Quality Certification #                              | Water Certification              |                     | 12-03-2002 |
| WQC 990720-02    | Water Quality Certification #                              | Water Certification              |                     | 07-20-1999 |
| WQC RC 040914-03 | Water Quality Certification # Tank Terminal & Road Project | Water Certification              |                     | 09-15-2004 |
|                  |  |                                  | Main FAX:           | 2253392369 |
|                  |  |                                  | Main Phone:         | 2253392043 |

Physical Location:

8404 River Rd  
Geismar, LA 70734

**General Information**

Air ID: 2049 BASF Corp

Activity Number: PER20050005

Permit Number: 2526-V2

Air - Title V Regular Permit Renewal

**Mailing Address:**  
PO Box 457  
Geismar, LA 707340457

**Location of Front Gate:**  
30° 12' 37" 61 hundredths latitude, 91° 0' 54" 94 hundredths longitude, Coordinate Method: Interpolation - Map, Coordinate Datum: NAD83

| <b>Related People:</b> | <b>Name</b>     | <b>Mailing Address</b>           | <b>Phone (Type)</b> | <b>Relationship</b>                   |
|------------------------|-----------------|----------------------------------|---------------------|---------------------------------------|
|                        | Mark Conger     | PO Box 457 Geismar, LA 707340457 | 2253397941 (WP)     | Solid Waste Billing Party for         |
|                        | Mark Conger     | PO Box 457 Geismar, LA 707340457 | 2253397941 (WP)     | Haz. Waste Billing Party for          |
|                        | Eric Hillman    | PO Box 457 Geismar, LA 707340457 |                     | Water Billing Party for               |
|                        | Steven Lewis    | PO Box 457 Geismar, LA 707340457 | 2253392529 (WP)     | Water Permit Contact For              |
|                        | Don Lierman     | PO Box 457 Geismar, LA 707340457 | 2253392646 (WP)     | Accident Prevention Contact for       |
|                        | Becky Martin    | PO Box 457 Geismar, LA 707340457 | 2253392369 (WF)     | Accident Prevention Contact for       |
|                        | Becky Martin    | PO Box 457 Geismar, LA 707340457 | 2253397309 (WP)     | Radiation Safety Officer for          |
|                        | Tanner Martinez | PO Box 457 Geismar, LA 707340457 | 2253392369 (WF)     | Radiation Safety Officer for          |
|                        | Tanner Martinez | PO Box 457 Geismar, LA 707340457 | 2253392369 (WF)     | Radiation License Billing Party for   |
|                        | Tanner Martinez | PO Box 457 Geismar, LA 707340457 | martinlt@basf.com { | Radiation License Billing Party for   |
|                        | Tanner Martinez | PO Box 457 Geismar, LA 707340457 | 2253397309 (WP)     | Radiation License Billing Party for   |
|                        | Tanner Martinez | PO Box 457 Geismar, LA 707340457 | martinlt@basf.com { | Radiation Safety Officer for          |
|                        | Craig Tyndall   | PO Box 457 Geismar, LA 707340457 | 2253392446 (WP)     | Accident Prevention Billing Party for |
|                        | Craig Tyndall   | PO Box 457 Geismar, LA 707340457 | 2253392369 (WF)     | Accident Prevention Billing Party for |

**Related Organizations:**

| <b>Name</b>                               | <b>Address</b>                               | <b>Phone (Type)</b> | <b>Relationship</b>                 |
|---|--|---------------------|-------------------------------------|
| BASF Corp                                 | PO Box 457 Geismar, LA 707340457             | 5043870631 (WP)     | Operates                            |
| BASF Corp                                 | PO Box 457 Geismar, LA 707340457             | 5043870631 (WP)     | Owns                                |
| BASF Corp                                 | PO Box 457 Geismar, LA 707340457             | 5043870631 (WP)     | Air Billing Party for               |
| BASF Corp                                 | PO Box 457 Geismar, LA 707340457             | 5043870631 (WP)     | UST Billing Party for               |
| Hydril Wetlands Consultants               | 102 E Thomas St Ste 1 Hammond, LA 70401      | 9854290333 (WP)     | Provides environmental services for |
| International Matex Tank Terminals - IMTT | 321 St Charles Ave New Orleans, LA 70130     | 5045868300 (WP)     | Supplies Material to                |
| Turner Industrial LLC                     | 8687 United Plaza Blvd Baton Rouge, LA 70809 |                     | Agent of Service for                |

**SIC Codes:**

- 2812, Alkalies and chlorine
- 2813, Industrial gases
- 2869, Industrial organic chemicals, nec
- 4911, Electric services

### General Information

AI ID: 2049 BASF Corp  
Activity Number: PER20050005  
Permit Number: 2526-V2  
Air - Title V Regular Permit Renewal

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

## INVENTORIES

AI ID: 2049 - BASF Corp

Activity Number: PER20050005

Permit Number: 2526-V2

Air - Title V Regular Permit Renewal

### Subject Item Inventory:

| ID     | Description                      | Tank Volume   | Max. Operating Rate | Normal Operating Rate | Contents               | Operating Time        |
|--------|----------------------------------|---------------|---------------------|-----------------------|------------------------|-----------------------|
| EQT206 | 10-97 Preheater H080A            |               |                     | 157 MM ft^3/yr        |                        | 8760 hr/yr (All Year) |
| EQT207 | 11-97 Preheater H080B            |               |                     | 157 MM ft^3/yr        |                        | 8760 hr/yr (All Year) |
| EQT208 | 12-97 Preheater H080C            |               |                     | 157 MM ft^3/yr        |                        | 8760 hr/yr (All Year) |
| EQT209 | 13-97 Preheater H080D            |               |                     | 157 MM ft^3/yr        |                        | 8760 hr/yr (All Year) |
| EQT210 | 14-97 Preheater H080E            |               |                     | 157 MM ft^3/yr        |                        | 8760 hr/yr (All Year) |
| EQT211 | 15-97 Preheater H080F            |               |                     | 157 MM ft^3/yr        |                        | 8760 hr/yr (All Year) |
| EQT212 | 16-97 Cracked Gas Flare FS 199A  |               |                     | 150000 lb/hr          |                        | 8760 hr/yr (All Year) |
| EQT213 | 17-97 Cracked Gas Flare FS 199B  |               |                     | 150000 lb/hr          |                        | 8760 hr/yr (All Year) |
| EQT214 | 18-97 Synthesis Gas Flare FS 399 |               |                     | 112000 lb/hr          |                        | 8760 hr/yr (All Year) |
| EQT215 | 19-97 Acetylene Gas Flare FS 499 |               |                     | 40400 lb/hr           |                        | 8760 hr/yr (All Year) |
| EQT216 | 21-97 Acetylene Cooling Tower    |               |                     | 45000 gallons/min     |                        | 8760 hr/yr (All Year) |
| EQT217 | 22-97 NMP Tank (D-300)           | 58800 gallons |                     | 212000 gallons/yr     | N-Methyl-2-pyrrolidone | 8760 hr/yr (All Year) |
| EQT218 | 27-97 D-850 Slop Drum            | 11300 gallons |                     |                       | N-Methyl-2-pyrrolidone | 8760 hr/yr (All Year) |
| EQT219 | 28-97 D-530 Residue Storage Tank | 10000 gallons |                     | 210000 gallons/yr     | N-Methyl-2-pyrrolidone | 8760 hr/yr (All Year) |
| EQT372 | WW-1 Process Wastewater          |               |                     |                       | (None Specified)       |                       |
| EQT373 | WW-2 Sooty Process Wastewater    |               |                     |                       | (None Specified)       |                       |
| EQT374 | WW-3 Plant Sump Wastewater       |               |                     |                       | (None Specified)       |                       |
| FUG013 | 24-97 Acetylene Plant Fugitives  |               |                     |                       |                        | 8760 hr/yr (All Year) |

### Subject Item Groups:

| ID     | Description                     | Included Components (from Above)        |
|--------|---------------------------------|---|
| GRP034 | Acetylene Plant                 | EQT206 10-97 Preheater H080A            |
| GRP034 | Acetylene Plant                 | EQT207 11-97 Preheater H080B            |
| GRP034 | Acetylene Plant                 | EQT208 12-97 Preheater H080C            |
| GRP034 | Acetylene Plant                 | EQT209 13-97 Preheater H080D            |
| GRP034 | Acetylene Plant                 | EQT210 14-97 Preheater H080E            |
| GRP034 | Acetylene Plant                 | EQT211 15-97 Preheater H080F            |
| GRP034 | Acetylene Plant                 | EQT212 16-97 Cracked Gas Flare FS 199A  |
| GRP034 | Acetylene Plant                 | EQT213 17-97 Cracked Gas Flare FS 199B  |
| GRP034 | Acetylene Plant                 | EQT214 18-97 Synthesis Gas Flare FS 399 |
| GRP034 | Acetylene Plant                 | EQT215 19-97 Acetylene Gas Flare FS 499 |
| GRP034 | Acetylene Plant                 | EQT216 21-97 Acetylene Cooling Tower    |
| GRP034 | Acetylene Plant                 | EQT217 22-97 NMP Tank (D-300)           |
| GRP034 | Acetylene Plant                 | EQT218 27-97 D-550 Slop Drum            |
| GRP034 | Acetylene Plant                 | EQT219 28-97 D-530 Residue Storage Tank |
| FUG13  | 24-97 Acetylene Plant Fugitives |   |

**INVENTORIES**

AI ID: 2049 - BASF Corp

Activity Number: PER20050005

Permit Number: 2526-V2

Air - Title V Regular Permit Renewal

**Subject Item Groups:**

| ID     | Description            | Included Components (from Above)        |
|--------|------------------------|---|
| GRP046 | Emissions Cap ACECAF01 | EQT206 10-97 Preheater H080A            |
| GRP046 | Emissions Cap ACECAF01 | EQT207 11-97 Preheater H080B            |
| GRP046 | Emissions Cap ACECAF01 | EQT208 12-97 Preheater H080C            |
| GRP046 | Emissions Cap ACECAF01 | EQT209 13-97 Preheater H080D            |
| GRP046 | Emissions Cap ACECAF01 | EQT210 14-97 Preheater H080E            |
| GRP046 | Emissions Cap ACECAF01 | EQT211 15-97 Preheater H080F            |
| GRP046 | Emissions Cap ACECAF01 | EQT212 16-97 Cracked Gas Flare FS 199A  |
| GRP046 | Emissions Cap ACECAF01 | EQT213 17-97 Cracked Gas Flare FS 199B  |
| GRP046 | Emissions Cap ACECAF01 | EQT214 18-97 Synthesis Gas Flare FS 399 |
| GRP046 | Emissions Cap ACECAF01 | EQT215 19-97 Acetylene Gas Flare FS 499 |

**Relationships:****Stack Information:**

| ID     | Velocity<br>(ft/sec)             | Flow Rate<br>(cubic ft/min-actual) | Diameter<br>(feet) | Discharge Area<br>(square feet) | Height<br>(feet) | Temperature<br>(°F) |
|--------|----------------------------------|------------------------------------|--------------------|---------------------------------|------------------|---------------------|
| EQT206 | 10-97 Preheater H080A            | 12.1                               | 12900              | 4.75                            | 158              | 415                 |
| EQT207 | 11-97 Preheater H080B            | 12.1                               | 12900              | 4.75                            | 158              | 415                 |
| EQT208 | 12-97 Preheater H080C            | 12.1                               | 12900              | 4.75                            | 158              | 415                 |
| EQT209 | 13-97 Preheater H080D            | 12.1                               | 12900              | 4.75                            | 158              | 415                 |
| EQT210 | 14-97 Preheater H080E            | 12.1                               | 12900              | 4.75                            | 158              | 415                 |
| EQT211 | 15-97 Preheater H080F            | 12.1                               | 12900              | 4.75                            | 158              | 415                 |
| EQT212 | 16-97 Cracked Gas Flare FS 199A  | 179                                | 134788             | 4                               | 197              | 1200                |
| EQT213 | 17-97 Cracked Gas Flare FS 199B  | 179                                | 134788             | 4                               | 197              | 1200                |
| EQT214 | 18-97 Synthesis Gas Flare FS 399 | 182                                | 173983             | 4.5                             | 249              | 1200                |
| EQT215 | 19-97 Acetylene Gas Flare FS 499 | 1944                               | 63113              | .83                             | 216              | 1200                |
| EQT216 | 21-97 Acetylene Cooling Tower    | 49                                 |                    |                                 | 1357             | 46                  |
| EQT217 | 22-97 NMP Tank (D-300)           |                                    |                    |                                 | 25               | 104                 |

**Fee Information:**

| Subj Item Id | Multiplier | Units Of Measure | Fee Desc  |
|--------------|------------|------------------|---|
| AI2049       | 1          | MM Lb/Yr         | 0630 - Organic Oxides, Alcohols, Glycols (Rated Capacity) |

## EMISSION RATES FOR CRITERIA POLLUTANTS

All ID: 2049 - BASF Corp

Activity Number: PER20050005

Permit Number: 2526-V2

Air - Title V Regular Permit Renewal

### All phases

| Subject Item        | PM <sub>10</sub> |           |           | SO <sub>2</sub> |           |           | CO        |           |           | VOC       |           |           |
|---------------------|------------------|-----------|-----------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                     | Avg lb/hr        | Max lb/hr | Tons/Year | Avg lb/hr       | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year |
| EQT 206<br>10-97    | 0.38             |           | 0.03      |                 |           | 1.5       |           |           | 3.3       |           |           | 0.01      |
| EQT 207<br>11-97    | 0.38             |           | 0.03      |                 |           | 1.5       |           |           | 3.3       |           |           | 0.01      |
| EQT 208<br>12-97    | 0.38             |           | 0.03      |                 |           | 1.5       |           |           | 3.3       |           |           | 0.01      |
| EQT 209<br>13-97    | 0.38             |           | 0.03      |                 |           | 1.5       |           |           | 3.3       |           |           | 0.01      |
| EQT 210<br>14-97    | 0.38             |           | 0.03      |                 |           | 1.5       |           |           | 3.3       |           |           | 0.01      |
| EQT 211<br>15-97    | 0.38             |           | 0.03      |                 |           | 1.5       |           |           | 3.3       |           |           | 0.01      |
| EQT 212<br>16-97    | 7.9              |           | 0.53      |                 |           | 59.1      |           |           | 173.6     |           |           | 61.1      |
| EQT 213<br>17-97    | 7.9              |           | 0.53      |                 |           | 59.1      |           |           | 173.6     |           |           | 61.1      |
| EQT 214<br>18-97    | 9.4              |           | 0.4       |                 |           | 73        |           |           | 205       |           |           | 26.3      |
| EQT 215<br>19-97    | 4.3              |           | 0.4       |                 |           | 33        |           |           | 95        |           |           | 24.1      |
| EQT 216<br>20-97    | 0.23             | 0.28      | 1.0       |                 |           |           |           |           |           | 0.001     | 0.14      | 0.01      |
| EQT 217<br>22-97    |                  |           |           |                 |           |           |           |           |           | 0.01      | 0.01      | 0.05      |
| EQT 218<br>27-97    |                  |           |           |                 |           |           |           |           |           | 0.01      | 0.01      | 0.05      |
| EQT 219<br>28-97    |                  |           |           |                 |           |           |           |           |           | 0.01      | 0.01      | 0.05      |
| FUG 013<br>24-97    |                  |           |           |                 |           |           |           |           |           | 0.06      | 0.06      | 0.28      |
| GRP 046<br>ACECAPO1 | 2.0              |           | 8.6       | 0.13            |           | 0.58      | 8.3       |           | 36.3      | 8.0       | 34.9      | 1.07      |
|                     |                  |           |           |                 |           |           |           |           |           |           |           | 4.69      |

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Phase Totals:

## EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2049 - BASF Corp

Activity Number: PER20050005

Permit Number: 2526-V2

Air - Title V Regular Permit Renewal

### All phases

PM10: 9.60 tons/yr  
SO2: 0.58 tons/yr  
NOx: 36.25 tons/yr  
CO: 34.9 tons/yr  
VOC: 5.13 tons/yr

### Emission rates Notes:

## EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2049 - BASF Corp

Activity Number: PER200500005

Permit Number: 2526-V2

Air - Title V Regular Permit Renewal

### All phases

| Subject Item                     | 1,3-Butadiene |           |           | Benzene   |           |           | Chlorine  |           |           | Formaldehyde |           |           | n-Hexane  |           |           |
|----------------------------------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------------|-----------|-----------|-----------|-----------|-----------|
|                                  | Avg lb/hr     | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year | Avg lb/hr    | Max lb/hr | Tons/Year | Avg lb/hr | Max lb/hr | Tons/Year |
| EQT 206<br>10-97                 |               |           |           |           |           |           |           |           |           |              |           |           |           |           | 0.001     |
| EQT 207<br>11-97                 |               |           |           |           |           |           |           |           |           |              |           |           |           |           | 0.001     |
| EQT 208<br>12-97                 |               |           |           |           |           |           |           |           |           |              |           |           |           |           | 0.001     |
| EQT 209<br>13-97                 |               |           |           |           |           |           |           |           |           |              |           |           |           |           | 0.001     |
| EQT 210<br>14-97                 |               |           |           |           |           |           |           |           |           |              |           |           |           |           | 0.001     |
| EQT 211<br>15-97                 |               |           |           |           |           |           |           |           |           |              |           |           |           |           | 0.001     |
| EQT 212<br>16-97                 | 0.12          |           |           |           | 0.45      |           |           |           |           |              |           |           |           |           | 0.001     |
| EQT 213<br>17-97                 | 0.12          |           |           |           | 0.45      |           |           |           |           |              |           |           |           |           | 0.001     |
| EQT 214<br>18-97                 | 0.16          |           |           |           | 0.64      |           |           |           |           |              |           |           |           |           | 0.001     |
| EQT 215<br>19-97                 | 0.43          |           |           |           | 1.1       |           |           |           |           |              |           |           |           |           | 0.001     |
| EQT 216<br>20-97                 |               |           |           |           |           |           | 0.03      | 0.04      | 0.12      |              |           |           |           |           |           |
| FUG 013<br>24-97                 | 0.001         | 0.001     | 0.01      | 0.001     | 0.001     | 0.01      |           |           |           |              |           |           |           |           |           |
| GRP 046<br>ACCEAPTO <sub>1</sub> | 0.002         |           | 0.01      | 0.01      |           | 0.03      |           |           |           | < 0.001      |           | < 0.01    | < 0.001   |           | < 0.01    |

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

### Permit Parameter Totals:

1,3-Butadiene: 0.02 tons/yr  
 Benzene: 0.04 tons/yr  
 Formaldehyde: 0.01 tons/yr  
 n-Hexane: 0.01 tons/yr

### Emission Rates Notes:

## EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AID: 2049 - BASF Corp

Activity Number: PER20050005

Permit Number: 2526-V2

Air - Title V Regular Permit Renewal

All phases

## SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp  
Activity Number: PER20050005  
Permit Number: 2526-V2  
Air - Title V Regular Permit Renewal

### EQT206 10-97 Preheater H080A

1 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]

Which Months: All Year Statistical Basis: None specified

2 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]

3 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]

Which Months: All Year Statistical Basis: None specified

4 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

5 The combustion of Group 1 virgin fossil fuels is exempt from the requirements of LAC 33:III.Chapter 51, Subchapter A per LAC 33:III.5105.B.3.a. [LAC 33:III.5105.B.3.a]

### EQT207 11-97 Preheater H080B

6 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]

Which Months: All Year Statistical Basis: None specified

7 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]

8 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]

Which Months: All Year Statistical Basis: None specified

9 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

10 The combustion of Group 1 virgin fossil fuels is exempt from the requirements of LAC 33:III.Chapter 51, Subchapter A per LAC 33:III.5105.B.3.a. [LAC 33:III.5105.B.3.a]

### EQT208 12-97 Preheater H080C

11 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]

Which Months: All Year Statistical Basis: None specified

12 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]

13 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]

Which Months: All Year Statistical Basis: None specified

## **SPECIFIC REQUIREMENTS**

AIID: 2049 - BASF Corp

Activity Number: PER20050005

Permit Number: 2526-V2

Air - Title V Regular Permit Renewal

### **EQT208 12-97 Preheater H080C**

- 14 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 15 The combustion of Group 1 virgin fossil fuels is exempt from the requirements of LAC 33:III.Chapter 51, Subchapter A per LAC 33:III.5105.B.3.a. [LAC 33:III.5105.B.3.a]

### **EQT209 13-97 Preheater H080D**

- 16 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
- Which Months: All Year Statistical Basis: None specified
- 17 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]
- 18 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]
- Which Months: All Year Statistical Basis: None specified
- 19 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 20 The combustion of Group 1 virgin fossil fuels is exempt from the requirements of LAC 33:III.Chapter 51, Subchapter A per LAC 33:III.5105.B.3.a. [LAC 33:III.5105.B.3.a]

### **EQT210 14-97 Preheater H080E**

- 21 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
- Which Months: All Year Statistical Basis: None specified
- 22 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]
- 23 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33:III.1313.C]
- Which Months: All Year Statistical Basis: None specified
- 24 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 25 The combustion of Group 1 virgin fossil fuels is exempt from the requirements of LAC 33:III.Chapter 51, Subchapter A per LAC 33:III.5105.B.3.a. [LAC 33:III.5105.B.3.a]

### **EQT211 15-97 Preheater H080F**

- 26 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). [LAC 33:III.1101.B]
- Which Months: All Year Statistical Basis: None specified

## SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp  
Activity Number: PER20050005  
Permit Number: 2526-V2  
Air - Title V Regular Permit Renewal

### EQT211 15-97 Preheater H080F

- 27 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33.III.1305.1-7. [LAC 33.III.1305]
- 28 Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). [LAC 33.III.1313.C]  
Which Months: All Year Statistical Basis: None specified
- 29 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33.III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33.III.1513]
- 30 The combustion of Group 1 virgin fossil fuels is exempt from the requirements of LAC 33.III.Chapter 51, Subchapter A per LAC 33.III.5105.B.3.a. [LAC 33.III.5105.B.3.a]

### EQT212 16-97 Cracked Gas Flare F S 199A

- 31 Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets. [LAC 33.III.1105]  
Which Months: All Year Statistical Basis: None specified
- 32 Submit notification: Due to the Office of Environmental Compliance as soon as possible after the start of burning of pressure valve releases for control over process upsets.  
Notify in accordance with LAC 33.I.3923. Notification is required only if the upset cannot be controlled in six hours. [LAC 33.III.1105]
- 33 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33.III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33.III.1513]
- 34 Design and operate for no visible emissions, as determined by the methods specified in 40 CFR 60.18(f), except for periods not to exceed a total of 5 minutes during any two consecutive hours. Subpart A. [40 CFR 60.18(c)(1)]
- 35 Operate with a flame present at all times, as determined by the methods specified in 40 CFR 60.18(f)(2). Subpart A. [40 CFR 60.18(c)(2)]
- 36 Heat content >= 300 BTU/scf (11.2 MJ/scm). Determine the net heating value of the gas being combusted by the methods specified in 40 CFR 60.18(f)(3). Subpart A. [40 CFR 60.18(c)(3)(ii)]  
Which Months: All Year Statistical Basis: None specified
- 37 Exit Velocity >= 60 and < 400 ft/sec (18.3 m/sec and 122 m/sec), as determined by the method specified in 40 CFR 60.18(f)(4). Subpart A. [40 CFR 60.18(c)(4)(ii)]  
Which Months: All Year Statistical Basis: None specified
- 38 Monitor flares to ensure that they are operated and maintained in conformance with their designs. Applicable subparts will provide provisions stating how to monitor flares.  
Subpart A. [40 CFR 60.18(d)]
- 39 Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 60.18(e)]

### EQT213 17-97 Cracked Gas Flare F S 199B

- 40 Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets. [LAC 33.III.1105]  
Which Months: All Year Statistical Basis: None specified
- 41 Submit notification: Due to the Office of Environmental Compliance as soon as possible after the start of burning of pressure valve releases for control over process upsets.  
Notify in accordance with LAC 33.I.3923. Notification is required only if the upset cannot be controlled in six hours. [LAC 33.III.1105]

## SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp  
Activity Number: PER20050005  
Permit Number: 2526-V2

### Air - Title V Regular Permit Renewal

#### EQT213 17-97 Cracked Gas Flare FS 199B

- 42 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33.III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33.III.1513]
- 43 Design and operate for no visible emissions, as determined by the methods specified in 40 CFR 60.18(f), except for periods not to exceed a total of 5 minutes during any two consecutive hours. Subpart A. [40 CFR 60.18(c)(1)]
- 44 Operate with a flame present at all times, as determined by the methods specified in 40 CFR 60.18(f)(2). Subpart A. [40 CFR 60.18(c)(2)]
- 45 Heat content  $\geq$  300 BTU/scf (11.2 MJ/scm). Determine the net heating value of the gas being combusted by the methods specified in 40 CFR 60.18(f)(3). Subpart A. [40 CFR 60.18(c)(3)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 46 Exit Velocity  $\geq$  60 and  $<$  400 ft/sec (18.3 m/sec and 122 m/sec), as determined by the method specified in 40 CFR 60.18(f)(4). Subpart A. [40 CFR 60.18(c)(4)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 47 Monitor flares to ensure that they are operated and maintained in conformance with their designs. Applicable subparts will provide provisions stating how to monitor flares.
- Subpart A. [40 CFR 60.18(d)]
- 48 Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 60.18(e)]

#### EQT214 18-97 Synthesis Gas Flare FS 399

- 49 Opacity  $\leq$  20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets. [LAC 33.III.1105]
- Which Months: All Year Statistical Basis: None specified
- 50 Submit notification: Due to the Office of Environmental Compliance as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33.I.3923. Notification is required only if the upset cannot be controlled in six hours. [LAC 33.III.1105]
- 51 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33.III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33.III.1513]
- 52 Design and operate for no visible emissions, as determined by the methods specified in 40 CFR 60.18(f), except for periods not to exceed a total of 5 minutes during any two consecutive hours. Subpart A. [40 CFR 60.18(c)(1)]
- 53 Operate with a flame present at all times, as determined by the methods specified in 40 CFR 60.18(f)(2). Subpart A. [40 CFR 60.18(c)(2)]
- 54 Heat content  $\geq$  300 BTU/scf (11.2 MJ/scm). Determine the net heating value of the gas being combusted by the methods specified in 40 CFR 60.18(f)(3). Subpart A. [40 CFR 60.18(c)(3)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 55 Exit Velocity  $\geq$  60 and  $<$  400 ft/sec (18.3 m/sec and 122 m/sec), as determined by the method specified in 40 CFR 60.18(f)(4). Subpart A. [40 CFR 60.18(c)(4)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 56 Monitor flares to ensure that they are operated and maintained in conformance with their designs. Applicable subparts will provide provisions stating how to monitor flares.
- Subpart A. [40 CFR 60.18(d)]
- 57 Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 60.18(e)]

#### EQT215 19-97 Acetylene Gas Flare FS 499

## **SPECIFIC REQUIREMENTS**

**AIID: 2049 - BASF Corp**

**Activity Number: PER20050005**

**Permit Number: 2526-V2**

**Air - Title V Regular Permit Renewal**

### **EQT215 19-97 Acetylene Gas Flare FS 499**

- 58 Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets. [LAC 33:III.1.105]  
Which Months: All Year Statistical Basis: None specified
- 59 Submit notification: Due to the Office of Environmental Compliance as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:I.3923. Notification is required only if the user cannot be controlled in six hours. [LAC 33:III.1105]
- 60 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 61 Design and operate for no visible emissions, as determined by the methods specified in 40 CFR 60.18(f), except for periods not to exceed a total of 5 minutes during any two consecutive hours. Subpart A. [40 CFR 60.18(c)(1)]
- 62 Operate with a flame present at all times, as determined by the methods specified in 40 CFR 60.18(f)(2). Subpart A. [40 CFR 60.18(c)(2)]
- 63 Heat content >= 300 BTU/scf (11.2 MJ/scm). Determine the net heating value of the gas being combusted by the methods specified in 40 CFR 60.18(f)(3). Subpart A. [40 CFR 60.18(c)(3)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 64 Exit Velocity >= 60 and < 400 ft/sec (18.3 m/sec and 122 m/sec), as determined by the method specified in 40 CFR 60.18(f)(4). Subpart A. [40 CFR 60.18(c)(4)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 65 Monitor flares to ensure that they are operated and maintained in conformance with their designs. Applicable subparts will provide provisions stating how to monitor flares. Subpart A. [40 CFR 60.18(d)]
- 66 Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 60.18(e)]

### **EQT217 22-97 NMP Tank (D-300)**

- 67 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116(b)(a). Subpart Kb. [40 CFR 60.116(b)]
- 68 VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116(b)(c)]

### **EQT372 WW-1 Process Wastewater**

- 69 Wastewater streams are hard-piped to the Wastewater Treatment Plant (biological treatment unit) which is permitted under the Utilities Plant Title V operating permit where LAC 33:III.2153 applies. [LAC 33:III.2153]
- 70 NSPS Subpart YYY - SOCMI Wastewater, 40 CFR 60.770 is currently proposed. Wastewater streams shall comply when NSPS Subpart YYY is promulgated. Group 2 streams must comply with recordkeeping and requirements of 40 CFR 60.781, 784, and 785. Subpart YYY. [40 CFR 60.770]

### **EQT373 WW-2 Sooty Process Wastewater**

- 71 Wastewater streams are hard-piped to the Wastewater Treatment Plant (biological treatment unit) which is permitted under the Utilities Plant Title V operating permit where LAC 33:III.2153 applies. [LAC 33:III.2153]
- 72 NSPS Subpart YYY - SOCMI Wastewater, 40 CFR 60.770 is currently proposed. Wastewater streams shall comply when NSPS Subpart YYY is promulgated. Group 2 streams must comply with recordkeeping and requirements of 40 CFR 60.781, 784, and 785. Subpart YYY. [40 CFR 60.770]

## SPECIFIC REQUIREMENTS

AID: 2049 - BASF Corp

Activity Number: PER20050005

Permit Number: 2526-V2

Air - Title V Regular Permit Renewal

### EQT374 WW-3 Plant Sump Wastewater

- 73 Wastewater streams are hard-piped to the Wastewater Treatment Plant (biological treatment unit) which is permitted under the Utilities Plant Title V operating permit where LAC 33:III.2153 applies. [LAC 33:III.2153]
- 74 NSPS Subpart YYY - SOCMI Wastewater, 40 CFR 60.770 is currently proposed. Wastewater streams shall comply when NSPS Subpart YYY is promulgated. Group 2 streams must comply with recordkeeping and requirements of 40 CFR 60.781, 784, and 785. Subpart YYY. [40 CFR 60.770]

### FUG013 24-97 Acetylene Plant Fugitives

- 75 Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment. [LAC 33:III.2111]
- 76 VOC, Total: No component shall be allowed to leak volatile organic compounds exceeding an instrument reading of 1,000 ppmv or greater for valves, connectors, instrumentation systems, pressure relief devices, and process drains; 5,000 ppmv for pumps and compressors; or 10,000 ppmv for agitators, as outlined in Subsection D of LAC 33:III.2122, when tested by Method 21. [LAC 33:III.2122.C.1.a]
- 77 Repair according to LAC 33:III.2122.C.3 any regulated component observed leaking by sight, sound, or smell, regardless of the leak's concentration, except those covered under LAC 33:III.2122.C.1.d. [LAC 33:III.2122.C.1.c]
- 78 Pumps and valves in heavy liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 5 days if observed leaking by sight, sound, or smell. Repair according to LAC 33:III.2122.C.3 if the pump or valve is determined to be leaking in excess of the applicable limits given in LAC 33:III.2122. [LAC 33:III.2122.C.1.d]
- 79 Which Months: All Year Statistical Basis: None specified  
Do not locate any valve, except safety pressure relief valves, at the end of a pipe or line containing volatile organic compounds unless the end of such line is sealed with a second valve, a blind flange, a plug, or a cap. Remove such sealing devices only when the line is in use, for example, when a sample is being taken. When the line has been used and is subsequently resealed, close the upstream valve first, followed by the sealing device. [LAC 33:III.2122.C.2]
- 80 Make every reasonable effort to repair a leaking component, as described in LAC 33:III.2122, within 15 days, except as provided. [LAC 33:III.2122.C.3]
- 81 Determine the percent of leaking components at a process unit for a test period using the equation in LAC 33:III.2122.C.4. [LAC 33:III.2122.C.4]
- 82 Determine the total percent of leaking and unrepairable components using the equation in LAC 33:III.2122.C.5. [LAC 33:III.2122.C.5]
- 83 Process drains: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 1,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3. [LAC 33:III.2122.D.1.a]
- 84 Which Months: All Year Statistical Basis: None specified  
Compressor seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 1,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3. [LAC 33:III.2122.D.1.b.i]
- 85 Which Months: All Year Statistical Basis: None specified  
Pressure relief valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times a year). If a reading of 1,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3. [LAC 33:III.2122.D.1.b.ii]
- 86 Which Months: All Year Statistical Basis: None specified  
Valves in light liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times a year). If a reading of 1,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3. Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2122.E (skip period provisions). [LAC 33:III.2122.D.1.b.iii]
- 87 Which Months: All Year Statistical Basis: None specified  
Pumps in light liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times a year). If a reading of 5,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3. [LAC 33:III.2122.D.1.b.iv]
- Which Months: All Year Statistical Basis: None specified

## SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp  
Activity Number: PER20050005  
Permit Number: 2526-V2

### Air - Title V Regular Permit Renewal

#### FUG013      24.97 Acetylene Plant Fugitives

88 Valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times a year). If a reading of 1,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3. Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2122.E (skip period provisions). [LAC 33:III.2122.D.1.b.v]

Which Months: All Year      Statistical Basis: None specified

89 Pumps: Seal or closure mechanism monitored by visual inspection/determination weekly (52 times a year). [LAC 33:III.2122.D.1.c]

Which Months: All Year      Statistical Basis: None specified

90 Flanged connectors: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly. [LAC 33:III.2122.D.1.d.ii]

Which Months: All Year      Statistical Basis: None specified

91 Instrumentation systems: Presence of a leak monitored by visual, audible, and/or olfactory weekly. [LAC 33:III.2122.D.1.e]

Which Months: All Year      Statistical Basis: None specified

92 Pressure relief valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 24 hours after venting to the atmosphere. If a reading of 1,000 ppmv or greater (for petroleum refineries, SOCMIs, MTBE, and polymer manufacturing industry) or 2,500 ppmv or greater (for natural gas processing plants) is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2122.C.3. [LAC 33:III.2122.D.3.a]

Which Months: All Year      Statistical Basis: None specified

93 All components: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of a leak detected by sight, smell, or sound, unless electing to implement actions as specified in LAC 33:III.2122.C.3. [LAC 33:III.2122.D.3.b]

Which Months: All Year      Statistical Basis: None specified

94 Inaccessible valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (at a minimum). [LAC 33:III.2122.D.3.c]

Which Months: All Year      Statistical Basis: None specified

95 Unsafe-to-monitor valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of conditions allowing these valves to be monitored safely. [LAC 33:III.2122.D.3.d]

Which Months: All Year      Statistical Basis: None specified

96 When a component which has a leak that cannot be repaired, as described in LAC 33:III.2122.C, is located, affix to the leaking component a weatherproof and readily visible tag bearing an identification number and the date the leak is located. Remove the tag after the leak has been repaired. [LAC 33:III.2122.F.1]

97 Equipment/operational data recordkeeping by survey log upon each occurrence of a leak. Include the leaking component information specified in LAC 33:III.2122.F.2.a through j. Retain the survey log for two years after the latter date specified in LAC 33:III.2122.F.2 and make said log available to DEQ upon request. [LAC 33:III.2122.F]

98 Submit report: Due semiannually, by the 31st of January and July, to the Office of Environmental Assessment, Environmental Technology Division. Include the information specified in LAC 33:III.2122.G.1 through 6 for each calendar quarter during the reporting period. [LAC 33:III.2122.G]

99 VOC, Total monitored by leak detection and repair (LDAR) system at the regulation's specified frequency. Comply with the streamlined equipment leaks monitoring program.

Compliance with the streamlined program in accordance with this specific condition shall serve to comply with each of the applicable fugitives in the following table. Noncompliance with the streamlined program in accordance with this specific condition may subject the permittee to enforcement action for one or more of the applicable fugitive emission programs.

| Unit or Plant Site | Program Being Streamlined | Stream Applicability  | Overall Most Stringent Program           |
|--------------------|---------------------------|---|--|
| Acetylene Plant    | LAC 33:III.5109 (non-HON) | 5% Class I & II   | LAC 33:III.2122 <input type="checkbox"/> |
|                    | 40 CFR 60 Subpart VV      | 10% VOC <input type="checkbox"/>                                  |  |
|                    | LAC 33:III.2122           | 10% VOC. [40 CFR 60 Subpart VV, LAC 33:III.5109, LAC 33:III.2122] |  |

Which Months: All Year      Statistical Basis: Approved basis

## **SPECIFIC REQUIREMENTS**

**AID: 2049 - BASF Corp**

**Activity Number: PER20050005**

**Permit Number: 2526-V2**

**Air - Title V Regular Permit Renewal**

### **FUG013 24-97 Acetylene Plant Fugitives**

100 VOC, Total recordkeeping by electronic or hard copy semiannually. Comply with the recordkeeping and reporting requirements of the overall most stringent program. Semiannual reports shall be submitted on July 30 and January 30, to cover the periods January 1 through June 30 and July 1 through December 31, respectively. The semiannual reports shall include any monitoring performed within the reporting period. [LAC 33:III.5109, 40 CFR 60 Subpart VV, LAC 33:III.2122]

101 VOC, Total: Use leak definitions and monitoring frequency based on the overall most stringent program. Percent leaker performance shall be calculated using the provisions of the overall most stringent program (LAC 33:III.2122). Annual monitoring shall be defined as once every four quarters. Some allowance may be made in the first year of the streamlined program in order to allow for transition from existing monitoring schedules. [40 CFR 60 Subpart VV, LAC 33:III.5109, LAC 33:III.2122]

102 VOC, Total: Apply the streamlined program to the combined universe of components subject to any of the programs being streamlined. Any component type which does not require periodic monitoring under the overall most stringent program (LAC 33:III.2122) shall be monitored as required by the most stringent requirements of any other program being streamlined and will not be exempted. The streamlined program will include any exemptions based on size of component available in any of the programs being streamlined. [LAC 33:III.2122, 40 CFR 60 Subpart VV, LAC 33:III.5109]

103 VOHAP: Comply with LAC 33:III.5109 by implementing the Louisiana Consolidated Fugitive Emission Program Guidelines. Compliance is achieved through compliance with LAC 33:III.2122. [LAC 33:III.5109]

104 VOC, Total: Comply with 40 CFR 60.480, Subpart VV by implementing the Louisiana Consolidated Fugitive Emission Program Guidelines. Compliance is achieved through compliance with LAC 33:III.2122. [40 CFR 60 Subpart VV]

### **GRP034 Acetylene Plant**

105 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1103]

106 Outdoor burning of waste material or other combustible material is prohibited. [LAC 33:III.1109.B]

107 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]

108 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A-5. [LAC 33:III.2113.A]

109 Permittee shall meet all control requirements of LAC 33:III.2153. [LAC 33:III.2153]

110 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.219]

111 Maintain best practical housekeeping and maintenance practices at the highest possible standards to control emissions of highly reactive volatile organic compounds (HRVOC), which include 1,3-Butadiene, Butene, cis-2-Butene, Ethylene, Propylene, Toluene, o-Xylene, m/p-Xylene, o-Xylene. [LAC 33:III.501.C.6]

112 Maintain, to the extent practicable, a leak-free facility taking such steps as are necessary and reasonable to prevent leaks and to expeditiously repair leaks that occur. Update the written plan presently required by LAC 33:III.2113.A.4 within 30 days of receipt of this permit to incorporate these general duty obligations into the housekeeping procedures. The plan shall then be considered a means of emission control subject to the required use and maintenance provisions of LAC 33:III.905. Failure to develop, use, and diligently maintain the plan shall be a violation of this permit. [LAC 33:III.501.C.6]

113 Permittee shall comply with a streamlined equipment leaks monitoring program. Compliance with the streamlined program in accordance with this specific condition shall serve to comply with each of the applicable fugitive emission monitoring programs being streamlined. Noncompliance with the streamlined program in accordance with this specific condition may subject the permittee to enforcement action for one or more of the applicable fugitive emissions programs. [LAC 33:III.501.C.6]

114 Benzene <= 0.04 tons/yr. [LAC 33:III.501.C.6]

Which Months: Phases: Statistical Basis: Annual maximum

## SPECIFIC REQUIREMENTS

AI ID: 2049 - BASF Corp  
Activity Number: PER20050005  
Permit Number: 2526-V2

### Air - Title V Regular Permit Renewal

#### GRP034 Acetylene Plant

115 n-Hexane <= 0.01 tons/yr. [LAC 33:III.501.C.6]

Which Months: Phases: Statistical Basis: Annual maximum

116 Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard. [LAC 33:III.5105.A.1]

117 Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109. [LAC 33:III.5105.A.2]

118 Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard. [LAC 33:III.5105.A.3]

119 Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A. [LAC 33:III.5105.A.4]

120 Submit Annual Emissions Report (TEDI): Due annually, by the 1st of July, to the Office of Environmental Assessment, Environmental Evaluation Division in a form specified by the department. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3. [LAC 33:III.5107.A.2]

121 Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations" [LAC 33:III.5107.A.3]

122 Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property). [LAC 33:III.5107.B.1]

123 Submit notification: Due to the Office of Environmental Compliance, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III Chapter 51.Table 51.1 or a reportable quantity (RQ) in LAC 33:III.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:III.3923. [LAC 33:III.5107.B.2]

124 Submit notification: Due to the Office of Environmental Compliance immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.3931, except as provided in LAC 33:III.5107.B.6. Submit notification in the manner provided in LAC 33:III.3923. [LAC 33:III.5107.B.3]

125 Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to the Office of Environmental Compliance by certified mail. Include the information specified in LAC 33:III.5107.B.4.a.i through viii. [LAC 33:III.5107.B.4]

126 Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge. [LAC 33:III.5107.B.5]

127 Submit to DEQ a certification of compliance with all ambient air standards, in accordance with LAC 33:III.5109.D. Include the elements listed under LAC 33:III.5109.E. [LAC 33:III.5109.B.2]

128 Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology. [LAC 33:III.5109.B.3]

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- 129 Determine the status of compliance, beyond the property line, with applicable ambient air standards listed in LAC 33:III.5112.Table 51.2. [LAC 33:III.5109.B]
- 130 Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department. [LAC 33:III.5109.C]
- 131 Obtain a Louisiana Air Permit in accordance with LAC 33:III.5111.B and C and in accordance with LAC 33:III.1701, before commencement of the construction of any new source. [LAC 33:III.5111.A.1]
- 132 Obtain a permit modification in accordance with LAC 33:III.5111.B and C before commencement of any modification not specified in a compliance plan submitted under LAC 33:III.5109.D, if the modification will result in an increase in emissions of any toxic air pollutant or will create a new point source. [LAC 33:III.5111.A.2.a]
- 133 Obtain written authorization from DEQ before commencement of any modification specified in a compliance plan submitted pursuant to LAC 33:III.5109. [LAC 33:III.5111.A.3]
- 134 Do not commence construction or modification of any major source without first obtaining written authorization from DEQ, as specified. [LAC 33:III.5111.A]
- 135 Submit notification in writing: Due to the Office of Environmental Compliance, Surveillance Division not more than 60 days nor less than 30 days prior to initial start-up.
- 136 Submit the anticipated date of the initial start-up. [LAC 33:III.5113.A.1]
- 137 Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel. [LAC 33:III.5113.B.1]
- 138 Submit test results: Due in writing to the Office of Environmental Assessment, Environmental Technology Division within 45 days after completion of the test. Submit test results signed by the person responsible for the test. [LAC 33:III.5113.B.1]
- 139 Conduct emission tests as set forth in accordance with Test Methods of 40 CFR, parts 60, 61, and 63 or in accordance with alternative test methods approved by DEQ. [LAC 33:III.5113.B.2]
- 140 Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department. [LAC 33:III.5113.B.3]
- 141 Provide emission testing facilities as specified in LAC 33:III.5113.B.4. a through e. [LAC 33:III.5113.B.4]
- 142 Analyze samples and determine emissions within 30 days after each emission test has been completed. [LAC 33:III.5113.B.5]
- 143 Submit certified letter: Due to the Office of Environmental Assessment, Environmental Technology Division before the close of business on the 45th day following the completion of the emission test. Report the determinations of the emission test. [LAC 33:III.5113.B.5]
- 144 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ. [LAC 33:III.5113.B.6]
- 145 Submit notification: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test. [LAC 33:III.5113.B.7]
- 146 Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence. [LAC 33:III.5113.C.1]
- 147 Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ. [LAC 33:III.5113.C.2]
- 148 Submit performance evaluation report: Due to the Office of Environmental Assessment, Environmental Technology Division within 60 days of the monitoring system performance evaluation. [LAC 33:III.5113.C.2]
- 149 Submit notification in writing: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before a performance evaluation of the monitoring system is to begin. [LAC 33:III.5113.C.2]

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- 150 Install a monitoring system on each effluent or on the combined effluent, when monitoring is required and the effluents from a single source, or from two or more sources subject to the same emission standards, are combined before being released to the atmosphere. If two or more sources are not subject to the same emission standards, install a separate monitoring system on each effluent, unless otherwise specified. If the applicable standard is a mass emission standard and the effluent from one source is released to the atmosphere through more than one point, install a monitoring system at each emission point unless DEQ approves the installation of fewer systems. [LAC 33:III.5113.C.3]
- 151 Evaluate the performance of continuous monitoring systems, upon request by DEQ, in accordance with the requirements and procedures contained in the applicable performance specification of 40 CFR Part 60, appendix B. [LAC 33:III.5113.C.5.a]
- 152 Submit report: Due to DEQ within 60 days of the performance evaluation of the CMS, if requested. Furnish DEQ with two or more copies of a written report of the test results within 60 days. [LAC 33:III.5113.C.5.a]
- 153 Install all continuous monitoring systems or monitoring devices to make representative measurements under variable process or operating parameters, if required to install a CMS. [LAC 33:III.5113.C.5.d]
- 154 Collect and reduce all data as specified in LAC 33:III.5113.C.5.e.i and ii, if required to install a CMS. [LAC 33:III.5113.C.5.e]
- 155 Submit plan: Due to the Office of Environmental Assessment, Environmental Technology Division within 90 days after DEQ requests either the initial plan or an updated plan, if required by DEQ to install a continuous monitoring system. Submit for approval a plan describing the affected sources and the methods for ensuring compliance with the continuous monitoring system. [LAC 33:III.5113.C.5]
- 156 Maintain records of monitoring data, monitoring system calibration checks, and the occurrence and duration of any period during which the monitoring system is malfunctioning or inoperative. Maintain these records at the source, or at an alternative location approved by DEQ, for a minimum of three years and make available, upon request, for inspection by DEQ. [LAC 33:III.5113.C.7]
- 157 Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert. [LAC 33:III.5609.A.1.b]
- 158 Activate the preplanned strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning. [LAC 33:III.5609.A.2.b]
- 159 Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency. [LAC 33:III.5609.A.3.b]
- 160 Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7. [LAC 33:III.5609.A]
- 161 Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency. Due within 30 days after requested by the administrative authority. [LAC 33:III.5611.A]
- 162 During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations. [LAC 33:III.5611.B]
- 163 Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901. [LAC 33:III.5901.A]
- 164 Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur. [LAC 33:III.5907]
- 165 Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III.Chapter 59, whichever is later. Include the information listed in LAC 33:III.5911.B, and submit to the Department of Environmental Quality, Office of Environmental Compliance, Surveillance Division. [LAC 33:III.5911.A]
- 166 Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Surveillance Division within 60 days after the information in the submitted registration is no longer accurate. [LAC 33:III.5911.C]
- 167 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Environmental Evaluation Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D. [LAC 33:III.919.D]
- 168 All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A. [40 CFR 60]

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- 169 All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A. [40 CFR 61]
- 170 Comply with all applicable provisions of 40 CFR 61 Subpart FF. [40 CFR 61]
- 171 Comply with all applicable provisions of 40 CFR 63 Subpart . [40 CFR 63 Subpart ]
- 172 Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- 173 Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]
- 174 Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(iii)(B)]
- 175 Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]
- 176 Comply with all applicable provisions of 40 CFR 70. [40 CFR 70]
- 177 Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B. [40 CFR 82.Subpart F]

### **GRP046 Emissions Cap ACECAP01**

- 178 To ensure compliance with NOx emissions limit, permittee shall continuously monitor and record NOx emissions from each preheater and vent gas flow rates to the flares. NOx emissions shall be calculated and recorded each month, as well as the flare operating time for the last 12 months. Nitrogen oxides monitored by calculations continuously. [LAC 33:III.501.C.6]  
Which Months: All Year Statistical Basis: Monthly maximum
- 179 NOx emissions shall be calculated and recorded each month, as well as the flare operating time for the last 12 months. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. A report showing the monthly NOx emissions from the heaters and flares, as well as the total NOx emissions from the heaters and flares for the last six 12-month periods, shall be submitted to the Office of Environmental Compliance, Enforcement Division semiannually. Nitrogen oxides recordkeeping by electronic or hard copy semiannually. [LAC 33:III.501.C.6]
- 180 Nitrogen oxides: Permittee shall maintain maximum NOx emissions from the Acetylene Plant at 36.25 tons/year which is below the PSD significance level of 40 tons/year. [LAC 33:III.501.C.6]